

College of Engineering News

March 26, 2015

Georgia Southern University

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CE Students Excel at ASCE Southeast Student Conference

March 26, 2015

The 2015 ASCE Southeast Student Conference was held March 19-21 in Chattanooga, Tennessee. Members of Georgia Southern's student chapter of ASCE participated and placed in the top three teams in many of the competitions held during the Conference. About 1,000 attendees represented 25 universities from across the Southeast.

Natasha Pokrywka and **Alejandra Delgado** won their concrete canoe sprinting group, and **Zachary Rivera** and **Dylan Hightower** came in second in the men's concrete canoe sprint competition. In the concrete canoe endurance races, the teams of **Bailey Webster** and **Gabriela Medina**, and **Mitchell O'Neal** and **Anthony Lopez** also performed superbly. Thanks to Associate Professor Peter Rogers who advised the Concrete Canoe teams.

Assistant Professor Junsuk Kang advised the Steel Bridge team, co-captained by **Nathaniel Tanner** and **Chris Bachmann**. While the team was hampered by delivery delays, they designed and built one of the strongest bridges in the competition.

Other Georgia Southern competition winners were:

Kenneth Givens, second place in the Professional Paper Competition [3rd: U Florida; 1st: U Tennessee-Knoxville].

Zachary Casey and **Benjamin Eller**, second place in the Transportation Competition [3rd: Auburn U; 1st: U Puerto Rico-Mayaguez].

Kenya Campbell and **Natasha Pokrywka**, third place in the Geotechnical Competition [2nd: Polytechnic U Puerto Rico; 1st: U Alabama-Huntsville].

Benjamin Eller, **Joshua Washington** and **Brandon Yingling**, third place in the Surveying Competition [2nd: U Central Florida; 1st: U Florida].

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Adel El Shahat publishes book about Smart Home Systems

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Adel El Shahat, Ph.D., Visiting Assistant Professor in the Department of Electrical Engineering, has a new book titled “Smart Homes Systems Technology.” The book is published by Scholar’s Press (Germany) and covers the following topics: smart homes & smart grids technology; micro-grid distributed generation topologies; wind energy appraisals; photovoltaic module optimum operation modelling; high speed generator design for smart grids; wind turbine and photovoltaic panel simulations; optimum modelling of capacitive deionization; power electronics apparatuses; storage unit parameter estimation; storage devices for green energy; electric drive performance improvements for renewable energy and automotive applications; microturbine operation; and nanogrids.

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